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DERWENT-ACC-NO: 1989-091663

DERWENT-WEEK: 198912

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TITLE: Engobe for ceramic decorative bricks mfr. -

contains

enriched bentonite, and glass cullet contg.

oxide(s) of

silicon, titanium, calcium, sodium, potassium

and cerium

INVENTOR: BREL, S S; SHUBIN, M I

PATENT-ASSIGNEE: MINSK CONS MAT RES[MICSR]

PRIORITY-DATA: 1986SU-3999607 (January 2, 1986)

PATENT-FAMILY:

PUB-NO PUB-DATE LANGUAGE

PAGES MAIN-IPC

SU 1423548 A September 15, 1988 N/A

004 N/A

APPLICATION-DATA:

PUB-NO APPL-DESCRIPTOR APPL-NO

APPL-DATE

SU 1423548A N/A 1986SU-3999607

January 2, 1986

INT-CL (IPC): C04B041/86

ABSTRACTED-PUB-NO: SU 1423548A

BASIC-ABSTRACT:

The engobe contains (in wt. %): glass cullet 85.5-90 and bentonite 10-14.5.

The **glass cullet** contains (in wt. %): SiO2 70.92-74.6, TiO2 0.75-0.9, CaO

6.26-8.4, Na20 15.2-16.28, K20 2.33-2.5 and CeO2 0.8-1. Bentonite contains (in

wt. %): SiO2 67.55, Al203 12.37, Fe203 1.53, TiO2 0.15, CaO 4.12, MgO 2.37, SO3

0.25, Na20 0.62, K20 1.09 and calcination loss 9.95.

The mixt. is sprayed on the article, dried for 48 hrs. at 80 deg.

C. and

fired for 2 hrs. at 1020 deg. C. to yield a white, 50-500 microns layer withstanding 170 freezing cycles, of strength 2.6-3.2 MPa, absorbing 0-0.2% water.

USE/ADVANTAGE - In building materials industry. Frost resistance of the engobe is increased from 18-30 to 170 cycles, adhesion to fired brick from 0.5-0.9 to 2.6-3.3 MPa, and water absorption reduced from 2.6-5.8 to 0-0.2%. Bul. 34/15.9.88.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: ENGOBE CERAMIC DECORATE BRICK MANUFACTURE CONTAIN ENRICH

BENTONITE

GLASS CULLET CONTAIN OXIDE SILICON TITANIUM CALCIUM

SODIUM

POTASSIUM CERIUM

DERWENT-CLASS: L01

CPI-CODES: L01-A01B; L01-A03C; L01-A05; L02-B06; L02-D14C;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1989-040882